"Bookmarks gone Bad" - How to prevei.. .s tragedy from occurring to you.

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Required fields are marked with the asterisk (*) and must be filled in to complete the form .

Summary

Status	Under Evaluation
Processing Location	ROC
Functional Area	██████████████
Attorney/Patent Professional	██████████████
IDT Team	████████████████████████████ ████████████████████████████ ████████████Roch/Rochester/IBM; ██████████████████████████IBM
Submitted Date	03/30/99 10:48:33 AM
Owning Division	█████
PVT Score	To calculate a PVT score, use the 'Calculate PVT' button.

Inventors with Lotus Notes ID's

Inventors: Rich Diedrich/Rochester/IBM, Eric Nelson/Rochester/IBM, Jeff Ryan/Rochester/IBM, John Santosuosso/Rochester/IBM .

Inventor Name > denotes primary contact	Inventor Serial	Div/Dept	Manager Serial	Manager Name
Diedrich, Richard (Rich)	██████████████			
Nelson, Eric G.	██████████████			
Ryan, Jeffry M (Jeff)	██████████████			
Santosuosso, John M	██████████████			

Inventors without Lotus Notes ID's

IDT Selection

IDT Team	Attorney/Patent Professional
████████████████ ████████████████ ████████████████ ████████████████ ████████████████ ████████████████ ████████████████ ████████████████ ████████████████	████████

Response Due to IP&L : 04/29/99

Main Idea

"Bookmarks gone Bad" - How to prevent ...is tragedy from occurring to you.

Title of disclosure (in English)

"Bookmarks gone Bad" - How to prevent this tragedy from occurring to you.

Idea of disclosure

1. Describe your invention, stating the problem solved (if appropriate), and indicating the advantages of using the invention.

Problem:
Have you ever bookmarked a web page, only to go back to it a few months later and find it was no longer available because the site moved. Not only did you lose the page and can't find out where it was forwarded to, but chances are you may have also lost other valuable links that were on that page as well. For example, I bookmark the JAVAJEMS page and from that page I can click on many other sites related to JAVA that I don't need to bookmark . If the JAVAJEMS page ever went away I would have to find all these other links that I frequent.

Solution:
Since web publishers frequently leave a temporary forwarding page to refer users to the new location of a page, one point of the invention is to automatically detect these forwarding pages and update the bookmark to point to the new page. This would be accomplished through a automated validation scan that occurs periodically.

A second point of the invention is to handle pages that go away without leaving a forwarding page. In this case, a temporary page would be built that contains a list of all the links that were previously found on the bookmarked page. Thus, even when an index page such as JAVAJEMS goes away without warning, the user still has some type of index to all the valuable references that were on the page.

Invention Details:
Both of these inventions are supported through the gathering of links found on bookmarked pages and associating them with the bookmark. These links are collected during the periodic verification scan. The scan is performed such that if the bookmark page is found, then its 'associated links' list is refreshed to contain all the imbedded links currently found on the page. If the scan finds that a bookmark is stale (i.e. invalid), then one of two actions are performed. If there is only one link associated with the bookmark, then it is assumed that this link was a forwarding link to the new location of the page and the bookmark is automatically updated to point to the new link. If there were multiple links associated with the bookmark, then a temporary page is constructed on the users local system that contains references to those links. The bookmark will be updated to point to the temporary local page. Thus the next time the user selects the bookmark, he will see the temporary page with reference to its imbedded links.

Users could configure the number of imbedded links to collect and the scan frequency (even on a per bookmark basis). A verification log would detail the bookmark update activity so users could see what bookmarks were updated and why.

The browser could also give the user the capability to display all hidden links associated with a bookmark.

2. How does the invention solve the problem or achieve an advantage,(a description of "the invention", including figures inline as appropriate)?

This invention solves the problem of bookmarks going out of date before the user has a chance to update them manually. By having an automatic verification scan, the user can be comfortable knowing his bookmarks and the valuable information they point to will not become lost.

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3. If the same advantage or problem has been identified by others (inside/outside IBM), how have those others solved it and does your solution differ and why is it better?

4. If the invention is implemented in a product or prototype, include technical details, purpose, disclosure details to others and the date of that implementation.

*Critical Questions (Questions 1 - 7 must be answered)

MATERIAL REMOVED

"Bookmarks gone Bad" - How to prever.. ...rs tragedy from occurring to you.